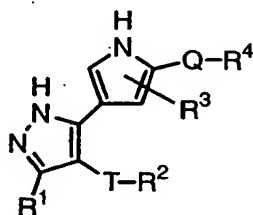


We Claim:

1. A compound of formula I:



I

or a pharmaceutically acceptable derivative or prodrug thereof, wherein:

R<sup>1</sup> is selected from R, halogen, N(R<sup>8</sup>)<sub>2</sub>, OR, NRCOR, NRCON(R<sup>8</sup>)<sub>2</sub>, CON(R<sup>8</sup>)<sub>2</sub>, SO<sub>2</sub>R, NRSO<sub>2</sub>R, or SO<sub>2</sub>N(R<sup>8</sup>)<sub>2</sub>;

T is selected from a valence bond or a linker group; each R is independently selected from hydrogen or an optionally substituted aliphatic group having one to six carbons;

R<sup>2</sup> is selected from hydrogen, CN, halogen, aryl, aralkyl, heteroaryl, heterocyclyl, an optionally substituted acyclic aliphatic chain group having one to six carbons, or an optionally substituted cyclic aliphatic group having four to ten carbons;

R<sup>3</sup> is selected from R, OH, OR, N(R<sup>8</sup>)<sub>2</sub>, halogen, or CN;

Q is a valence bond, J, or an optionally substituted C<sub>1-6</sub> alkylidene chain wherein up to two nonadjacent carbons of the alkylidene chain are each optionally and independently replaced by J;

J is selected from -C(=O)-, -CO<sub>2</sub>-, -C(O)C(O)-, -NRCONR<sup>8</sup>-, -N(R)N(R<sup>8</sup>)-, -C(=O)NR<sup>8</sup>-, -NRC(=O)-, -O-, -S-, -SO-, -SO<sub>2</sub>-, -N(R)O-, -ON(R<sup>8</sup>)-, -OC(=O)N(R<sup>8</sup>)-, -N(R)COO-, -SO<sub>2</sub>N(R<sup>8</sup>)-, -N(R)SO<sub>2</sub>-, or -N(R<sup>8</sup>)-;

R<sup>4</sup> is selected from -R<sup>8</sup>, -R<sup>5</sup>, -NH<sub>2</sub>, -NHR<sup>5</sup>, -N(R<sup>5</sup>)<sub>2</sub>, or -NR<sup>5</sup>(CH<sub>2</sub>)<sub>y</sub>N(R<sup>5</sup>)<sub>2</sub>;

each R<sup>5</sup> is independently selected from R<sup>6</sup>, R<sup>7</sup>,

$-(CH_2)_yCH(R^6)(R^7)$ ,  $-(CH_2)_yR^6$ ,  $-(CH_2)_yCH(R^6)_2$ ,  
 $-(CH_2)_yCH(R^7)_2$ , or  $-(CH_2)_yR^7$ ;

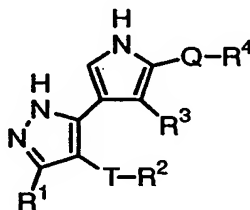
y is 0-6;

each  $R^6$  is an optionally substituted group independently selected from an aliphatic, aryl, aralkyl, aralkoxy, heteroaryl, heteroarylalkyl, heteroarylalkoxy, heterocyclyl, heterocyclylalkyl, or heterocyclylalkoxy, group;

each  $R^7$  is independently selected from an optionally substituted aliphatic, hydroxyalkyl, alkoxyalkyl, aryloxyalkyl, or alkoxycarbonyl; and

each  $R^8$  is independently selected from R, or two  $R^8$  on the same nitrogen taken together with the nitrogen optionally form a four to eight membered, saturated or unsaturated heterocyclic ring having one to three heteroatoms; provided that  $QR^4$  is other than  $CON(CH_3)_2$  when  $R^1$  and  $R^3$  are each hydrogen and when  $TR^2$  is an unsubstituted phenyl ring attached at the 4-position of the pyrazole ring.

2. The compound according to claim 1 having the formula

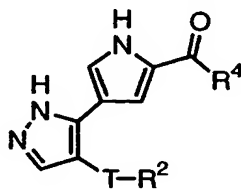


II

or a pharmaceutically acceptable derivative or prodrug thereof.

3. The compound according to claim 2 having one or more of the following features: (a) Q is -CO-, -CO<sub>2</sub>-, or -CONH-; (b) T is a valence bond; (c) R<sup>1</sup> is hydrogen or NHR; (d) R<sup>2</sup> is an optionally substituted aryl ring; (e) R<sup>3</sup> is hydrogen; (f) R<sup>4</sup> is selected from R<sup>5</sup>, -NHR<sup>5</sup>, -N(R<sup>5</sup>)<sub>2</sub>, -NR<sup>5</sup>R<sup>6</sup>, -NHCHR<sup>5</sup>R<sup>6</sup>, or -NHCH<sub>2</sub>R<sup>5</sup>; or (g) R<sup>5</sup> is an optionally substituted group selected from aryl, aralkyl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclylalkyl group, (CH<sub>2</sub>)<sub>y</sub>R<sup>6</sup>, (CH<sub>2</sub>)<sub>y</sub>R<sup>7</sup>, or (CH<sub>2</sub>)<sub>y</sub>CH(R<sup>6</sup>)(R<sup>7</sup>).

4. The compound according to claim 3 having the formula



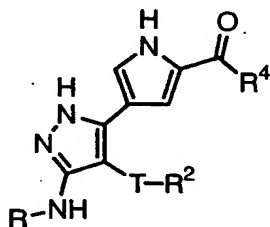
II-A

or a pharmaceutically acceptable derivative or prodrug thereof.

5. The compound according to claim 4 having the following features: (a) T is a valence bond; (b) R<sup>2</sup> is an optionally substituted aryl ring; (c) R<sup>4</sup> is selected from R<sup>5</sup>, -NHR<sup>5</sup>, -N(R<sup>5</sup>)<sub>2</sub>, -NR<sup>5</sup>R<sup>6</sup>, -NHCHR<sup>5</sup>R<sup>6</sup>, or -NHCH<sub>2</sub>R<sup>5</sup>; and (d) R<sup>5</sup> is an optionally substituted group selected from aryl, aralkyl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclylalkyl group, (CH<sub>2</sub>)<sub>y</sub>R<sup>6</sup>, (CH<sub>2</sub>)<sub>y</sub>R<sup>7</sup>, or (CH<sub>2</sub>)<sub>y</sub>CH(R<sup>6</sup>)(R<sup>7</sup>).

6. The compound according to claim 1 wherein said compound is selected from those listed in Table 1, said compound being other than compound number 1.

7. The compound according to claim 1 having the formula:



II-B

or a pharmaceutically acceptable derivative or prodrug thereof.

8. The compound according to claim 7 wherein said compound has one or more of the following features: (a) T is a valence bond; (b) R<sup>2</sup> is an optionally substituted aryl ring; (c) R<sup>4</sup> is selected from R<sup>5</sup>, -NHR<sup>5</sup>, -N(R<sup>5</sup>)<sub>2</sub>, -NR<sup>5</sup>R<sup>6</sup>, -NHCHR<sup>5</sup>R<sup>6</sup>, or -NHCH<sub>2</sub>R<sup>5</sup>; or (d) R<sup>5</sup> is an optionally substituted group selected from aryl, aralkyl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclylalkyl group, (CH<sub>2</sub>)<sub>y</sub>R<sup>6</sup>, (CH<sub>2</sub>)<sub>y</sub>R<sup>7</sup>, or (CH<sub>2</sub>)<sub>y</sub>CH(R<sup>6</sup>) (R<sup>7</sup>).

9. The compound according to claim 1 wherein said compound is selected from those listed in Table 2.

10. A composition comprising a compound according to any one of claims 1 to 9 in an amount sufficient to detectably inhibit protein kinase activity, said protein kinase selected from one or more of ERK, JAK, JNK, Aurora, GSK, KDR, AKT, or a protein kinase related thereto; and a pharmaceutically acceptable carrier.

11. The composition according to claim 10 wherein said compound is formulated in a pharmaceutically acceptable manner for administration to a patient.

12. A composition according to claim 11 further comprising a therapeutic agent, either as part of a

multiple dosage form together with said compound or as a separate dosage form.

13. A method of inhibiting protein kinase activity in a biological sample, wherein said protein kinase is selected from ERK, JAK, JNK, Aurora, GSK, KDR, AKT, or a protein kinase related thereto, comprising the step of contacting said sample with a compound according to any one of claims 1 to 9.

14. A method for treating a protein kinase-mediated disease state in a patient, wherein said protein kinase is selected from one or more of ERK, JAK, JNK, Aurora, KDR, AKT, or a protein kinase related thereto, comprising the step of administering to said patient a composition according to claim 11.

15. The method according to claim 14, comprising the additional step of administering to said patient a therapeutic agent either as part of a multiple dosage form together with said compound or as a separate dosage form.

16. A method of treating a disease state in a patient, wherein said disease state is selected from cancer, stroke, diabetes, hepatomegaly, cardiovascular disease, Alzheimer's disease, cystic fibrosis, viral disease, autoimmune diseases, atherosclerosis, restenosis, psoriasis, allergic disorders, inflammation, neurological disorders, a hormone-related disease, conditions associated with organ transplantation, immunodeficiency disorders, destructive bone disorders, proliferative disorders, infectious diseases, conditions associated with cell death, thrombin-induced platelet aggregation,

chronic myelogenous leukemia (CML), liver disease, pathologic immune conditions involving T cell activation, or CNS disorders, comprising the step of administering to said patient a composition according to claim 10.

17. The method according to claim 16 wherein the disease state is cancer.

18. The method according to claim 17 wherein the disease state is a cancer selected from breast; ovary; cervix; prostate; testis, genitourinary tract; esophagus; larynx, glioblastoma; neuroblastoma; stomach; skin, keratoacanthoma; lung, epidermoid carcinoma, large cell carcinoma, small cell carcinoma, lung adenocarcinoma; bone; colon, adenoma; pancreas, adenocarcinoma; thyroid, follicular carcinoma, undifferentiated carcinoma, papillary carcinoma; seminoma; melanoma; sarcoma; bladder carcinoma; liver carcinoma and biliary passages; kidney carcinoma; myeloid disorders; lymphoid disorders, Hodgkin's, hairy cells; buccal cavity and pharynx (oral), lip, tongue, mouth, pharynx; small intestine; colon-rectum, large intestine, rectum; brain and central nervous system; or leukemia.

19. The method according to either of claims 17 or 18 comprising the additional step of administering to said patient a chemotherapeutic agent either as part of a multiple dosage form together with said compound or as a separate dosage form.

20. The method according to claim 16 wherein the disease state is cardiovascular disease.

21. The method according to claim 20 wherein the disease state is a cardiovascular disease selected from restenosis, cardiomegaly, arteriosclerosis, myocardial infarction, or congestive heart failure.

22. The method according to either of claims 20 or 21 comprising the additional step of administering to said patient a therapeutic agent for treating cardiovascular disease either as part of a multiple dosage form together with said compound or as a separate dosage form.

23. A composition for coating an implantable device comprising a compound according to claim 1 and a carrier suitable for coating said implantable device.

24. An implantable device coated with a composition according to claim 23.